

## CLAIMS

1. A therapeutic wound healing composition comprising:
  - (A) a composition selected from the group consisting of therapeutically effective amounts of antibacterial agents and therapeutically effective amounts of antifungal agents; and
  - (B) a wound healing composition, wherein the wound healing composition comprises:
    - (a) zinc oxide, and
    - (b) an admixture of two or more of the four fat soluble vitamins.
2. The composition according to claim 1, wherein said antibacterial agents are selected from the group consisting of bismuth containing compounds, sulfonamides, nitrofurans, metronidazole, tinidazole, nimorazole, benzoic acid, aminoglycosides, macrolides, penicillins, polypeptides, tetracyclines, cephalosporins, chloramphenicol, and clindamycin and mixtures thereof.
3. The composition according to claim 1, wherein said antibacterial agents are selected from the group consisting of bismuth aluminate, bismuth subcitrate, bismuth subgalate, bismuth subsalicylate, sulfonamides, nitrofurazone, nitrofurantoin, furozolidone, metronidazole, tinidazole, nimorazole, benzoic acid, gentamycin, neomycin, kynamycin, streptomycin, erythromycin, clindamycin, rifampin, rifamycin, penicillin G, penicillin V, ampicillin, amoxicillin, bacitracin, polymixin, tetracycline, chlorotetracycline, oxytetracycline, doxycycline, cephalexin, cephalothin, clindamycin, and chloramphenicol and mixtures thereof.

I Claim:

1. A therapeutic tissue healing composition adapted for oral and non-oral application in mammals comprising:  
an effective amount of a mixture of fat-soluble vitamins A and D.
2. The composition of Claim 1, further comprising an effective amount of Vitamin E.
3. The composition of Claim 1, further comprising an effective amount of Vitamin K.
4. The composition of Claim 1, further comprising an effective amount of zinc oxide.
5. The composition of Claim 1, further comprising an effective amount of an antibacterial agent.
6. The composition of Claim 1, further comprising an effective amount of an antifungal agent.
7. The composition of Claim 1, wherein said Vitamin A is selected from the group consisting of retinol, 3,4-didehydroretinol, carotene, alpha-carotene, beta-carotene, delta-carotene, and gamma carotene.
8. The composition of Claim 1, wherein said Vitamin D is selected from the group consisting of cholecalciferol and ergocalciferol.
9. The composition of Claim 2, wherein said Vitamin E is selected from the group consisting of Vitamin E acetate, Vitamin E succinate, pharmaceutically acceptable Vitamin E salts and Vitamin E phosphate.
10. The composition of Claim 5, wherein said antibacterial agent is selected from the group consisting of bismuth-containing compounds, sulfonamides, nitrofurans, metronidazole, nimorazole, tinidazole, benzoic acid, aminoglycosides, macrolides, penicillins, polypeptides, tetracyclines, cephalosporins, chloramphenicol, clindamycin and mixtures thereof.

11. The composition of Claim 5, wherein said antibacterial agent is selected from the group consisting of bismuth aluminate, bismuth subcitrate, bismuth subgalate, bismuth subsalicylate, sulfonamides, nitrofurazone, nitrofurantoin, furazolidone, metronidazole, tinidazole, nimorazole, benzoic acid, hentamycin, neomycin, kynamycin, streptomycin, erythromycin, clindamycin, rifampin, rifamycin, penicillin G, penicillin V, ampicillin, amoxicillin, bacitracin, polymixin, tetracycline, chlorotetracycline, oxytetracycline, doxycycline, cephalexin, cephalothin, clindamycin, chloramphicol and mixtures thereof.

5           12. The composition of Claim 5, wherein said antibacterial agent is bacitracin zinc.

13. The composition of Claim 6, wherein said antifungal agent is selected from the group consisting of astemizole, clotrimazole, omeprazole, econozole, oxiconazole, sculconazole, fluconazole, ketoconazole, itraconazole, terbinafien, and mixtures thereof.

14. The composition of Claim 1, wherein said antifungal agent is clotrimazole.

15. The composition of Claim 1, wherein said Vitamin A is retinyl palmitate.

16. The composition of Claim 1, wherein said Vitamin D is ergocalciferol.

17. The composition of Claim 2, wherein said Vitamin E is tocopherol.

18. A wound healing composition for repairing human tissue adapted for oral and non-oral administration, comprising:

a therapeutically effective mixture of zinc oxide and at least two fat-soluble vitamins admixed with a pharmaceutically acceptable carrier.

19. The composition of Claim 18, wherein said fat-soluble vitamins comprise at least Vitamins A and D.

20. The composition of Claim 18, further comprising therapeutically effective amounts of antibacterial and antifungal agents.
21. The composition of Claim 18, further comprising therapeutically effective amounts of Vitamins E and K.
22. The composition of Claim 18, wherein the therapeutically effective mixture comprises between about 0.01% and about 75% by total weight of zinc oxide.
23. The composition of Claim 19, wherein said therapeutically-effective mixture comprises between about 0.01% and 99.99% by total weight of fat-soluble vitamins.
24. A method of healing wounds in mammals by repairing body tissue in mammals, comprising the steps of:  
contacting a wound to be healed with a therapeutic composition comprising an effective amount of a composition comprising at least two fat-soluble vitamins admixed with zinc oxide.  
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25. The method of Claim 24, further comprising the step of admixing said at least two fat-soluble vitamins with effective amount of antibacterial and antifungal agents prior to contacting said wound.
26. The method of Claim 24, wherein said fat-soluble vitamins are selected from the group consisting of Vitamins A, D, E, and K.
27. The method of Claim 26, wherein said Vitamin A is elected from the group consisting of retinol, 3,4-didehydroretinol, carotene, alpha-carotene, beta-carotene, delta-carotene, and gamma carotene.

28. The method of Claim 26, wherein said Vitamin D is elected from the group consisting of cholecalciferol and ergocalciferol.

29. The method of Claim 26, wherein said Vitamin E is selected from the group consisting of Vitamin E acetate, Vitamin E succinate, pharmaceutically acceptable Vitamin E salts and Vitamin E phosphate.

30. The method of Claim 25, wherein said antibacterial agents are selected from the group consisting of bismuth-containing compounds, sulfonamides, nitrofurans, metronidazole, nimorazole, tinidazole, benzoic acid, aminoglycosides, macrolides, penicillins, polypeptides, tetracyclines, cephalosporins, chloramphenicol, clindamycin and mixtures thereof.

31. The method of Claim 25, wherein said antibacterial agents are selected from the group consisting of bismuth aluminate, bismuth subcitrate, bismuth subgalate, bismuth subsalicylate, sulfonamides, nitrofurazone, nitrofurantoin, furazolidone, metronidazole, tinidazole, nimorazole, benzoic acid, hentamycin, neomycin, kynamycin, streptomycin, erythromycin, clindamycin, rifampin, rifamycin, penicillin G, penicillin V, ampicillin, amoxicillin, bacitracin, polymixin, tetracycline, chlortetracycline, oxytetracycline, doxycycline, cephalexin, cephalothin, clindamycin, chloramphic平 and mixtures thereof.

32. The method of Claim 25, wherein said antibacterial agent is bacitracin zinc.

33. The method of Claim 25, wherein said antifungal agents are selected from the group consisting of astemizole, clotrimazole, omeprazole, econozole, oxiconazole, sculconazole, fluconazole, ketoconazole, itraconazole, terbinafien, and mixtures thereof.

34. The method of Claim 25, wherein said antifungal agent is clotrimazole.

35. The method of Claim 26, wherein said Vitamin A is retinyl palmitate.

36. The method of Claim 26, wherein said Vitamin D is ergocalciferol.

37. The method of Claim 26, wherein said Vitamin E is tocopherol.